

02-03-00

A

+

PTO/SB/05 (2/98) (modified)

Approved for use through 9/30/2000, OMB 0651-0032

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

NEW UTILITY PATENT APPLICATION TRANSMITTAL <i>(only for new nonprovisional applications under 37 CFR 1.53(b))</i>	Attorney Docket Number	4648
	First Named Inventor	Richard Leinfellner
	Total Pages in this Submission	46
	Express Mail Label No.	EL417726141US


APPLICATION ELEMENTS	ACCOMPANYING APPLICATION PARTS
1. <input checked="" type="checkbox"/> Fee Transmittal Form (in duplicate) <input checked="" type="checkbox"/> Check Enclosed 2. <input checked="" type="checkbox"/> Specification <i>(preferred arrangement set forth below)</i> <input type="checkbox"/> Descriptive Title of the Invention <input type="checkbox"/> Cross Reference(s) to Related Case(s) <input type="checkbox"/> Statement Regarding Fed sponsored R & D <input type="checkbox"/> Background of the Invention <input type="checkbox"/> Brief Summary of the Invention <input type="checkbox"/> Brief Description of the Drawing(s) <input type="checkbox"/> Detailed Description <input type="checkbox"/> Claim or Claims <input type="checkbox"/> Abstract of the Disclosure 3. <input checked="" type="checkbox"/> Drawing(s) <i>(when necessary per 35 USC 113)</i> 4. Oath or Declaration a. <input checked="" type="checkbox"/> New Declaration <input checked="" type="checkbox"/> Executed b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63(d)) <i>(for continuation/divisional with Box 17 completed)</i> i. <input type="checkbox"/> DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). 5. <input type="checkbox"/> Incorporation by Reference <i>(useable if Box 4b is checked). The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.</i>	6. <input checked="" type="checkbox"/> Assignment & Assignment Recordation Cover Sheet 7. <input type="checkbox"/> Certified Copy of Priority Document(s) <i>(if foreign priority is claimed)</i> 8. <input type="checkbox"/> Information Disclosure Statement & PTO-1449 <input type="checkbox"/> Copies of IDS Citation(s) 9. <input type="checkbox"/> Preliminary Amendment 10. Small Entity Statement <input type="checkbox"/> New Statement enclosed <input type="checkbox"/> Statement filed in prior application. Status still proper and desired 11. <input checked="" type="checkbox"/> Return Postcard 12. <input type="checkbox"/> 13. <input type="checkbox"/> 14. <input type="checkbox"/> 15. <input type="checkbox"/> 16. <input type="checkbox"/>
ADDRESS TO: Assistant Commissioner for Patents Box Patent Application Washington, D.C. 20231	

17. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information below and in a preliminary amendment:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No: ____/____

Prior application information: Examiner: _____ Group/Art Unit: _____

18. CORRESPONDENCE ADDRESS

NAME	Dana S. Rao Fenwick & West LLP				
ADDRESS	Two Palo Alto Square				
CITY	Palo Alto	STATE	CA	ZIP CODE	94306
COUNTRY	U.S.A.	TELEPHONE	(650) 858-7816	FAX	(650) 494-1417
Name (Print/Type)	Dana S. Rao			Registration No. (Attorney/Agent)	43,875
Signature				Date	2/1/00

PATENT APPLICATION

ELECTRONIC IN-APPLICATION POSTCARDS

Inventors:

Richard Leinfellner, Karl Fitzhugh, Jeffrey Gamon

Assignee:

Electronic Arts, Inc.

Prepared by:

Dana S. Rao

Fenwick & West, LLP

BACKGROUNDFIELD OF INVENTION

The present application relates to electronic messaging applications, specifically to electronic messaging systems invoked within the context of an application.

5 BACKGROUND OF THE INVENTION

Electronic computer games are becoming very sophisticated interactive applications. One user's experience in a game may be very different than other users' experience because of the level of sophistication and variety of game experiences provided even in a single game. For example, while playing an electronic game, players may overcome obstacles, visit different lands, meet and talk to different people, and thus different players may have completely different experiences while playing the same game. Much of the entertainment value of playing electronic games is derived from discussing the experience with other players of the game and other friends who may not be players of the game. However, currently the only method to relate an individual gaming experience in any significant detail is to relate the experience orally.

Alternatively, sophisticated computer users may print-out a screen shot of a particular game image to send to others.

However, screen shots are very difficult to use. Locating the image file after capture requires a user with some computer sophistication, and sending the image file require the use of a third party electronic mail program. Moreover, third party electronic mail programs often cannot be activated while a game is being executed, and therefore in order to send the message the user must exit the game, locate the screen shot image file,

execute the mail program, create a new message, and then attach the image to the message. Users who do not have third party electronic mail programs cannot use the screen shot method at all, and for most other users the screen shot method is too cumbersome to be a viable solution to this problem. Screen shots are also limited to
5 images, and cannot capture other types of media produced by the game. Further, screen shots cannot easily be modified or customized to suit user preferences. For example, screen shots are unable to distinguish between desired content displayed on a screen and undesirable content.

Therefore, a system, method and apparatus are needed in which electronic
10 messages can be sent by a user from within a game or other application that captures the experience of a moment within the game, provides the ability to transmit that experience to others, and provides a user-friendly format to transmit the experience, without requiring exiting the game, using a third party electronic mail program to send the message, and does not require a user to possess an advanced level of computer
15 sophistication.

SUMMARY OF INVENTION

In accordance with the present invention a composite message is generated representative of an application experience. This composite message is formed by combining a user input selecting multimedia information provided by an application and
20 message information received from a message form generated from within the application. The composite message is then sent to the intended recipient(s) specified by the user through a network connection. In a preferred embodiment, a composite message

is created by any or all of the following: capturing a current screen image, linking an associated audio file to the message, removing extraneous graphical data of an application and/or user interfaces from the image, scaling the image to desired display size, adding corporate logo or other identifying information to the message, and receiving
5 text to be transmitted to a remote recipient.

In a further embodiment, the electronic mail address of the sender is automatically retrieved and placed in a message form generated internally in the application module, the recipient's name and address are received, and the address information, message text, and multimedia information are displayed to the sender to allow the sender to decide whether
10 or not to send the composite message. Upon sending the composite message, the normal execution of the application is resumed. In a further embodiment, the system also determines if the user is currently connected to a network, and initiates the connection if the user is not connected. The system can also notify the sender when the recipient has received the message during the execution of the application.

Thus, the present invention provides an experience representation that does not
15 require exiting the application from which the experience is desired to be captured, does not require a third party electronic mail program to send the message, and requires little computer sophistication on the part of the user. Moreover, the present invention combines customizable, alterable multimedia information with a message in a user-
20 friendly format and delivers the message quickly and reliably to an intended recipient.

In an alternate embodiment, the present invention notifies a predetermined third party of the identity of the recipient of the composite message. The third party can use the information to market the application or other products/services, to the recipient if the

recipient is not currently an owner of the application, or purchaser of the other products or services.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a block diagram illustrating a network connecting a sender of a composite message to a recipient.

Fig. 2 is a flowchart illustrating generating a composite message.

Fig. 3a is a flowchart illustrating an embodiment of capturing multimedia information.

Fig. 3b is a screen shot of an image being captured.

Fig. 3c is a screen shot of an image being captured with extraneous information removed.

Fig. 4a is a flowchart illustrating an embodiment of generating a message form.

Fig. 4b is a screen shot of a first stage of a message form being created.

Fig. 4c is a screen shot of a second stage of a message form being created.

Fig. 5 is a flowchart illustrating an embodiment of creating a composite message.

Fig. 6 is a flowchart illustrating an embodiment of sending a composite message.

Fig. 7 is an illustration of receiving a composite message through a conventional e-mail program.

Fig. 8 is a flowchart illustrating a method of providing targeted advertisements.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Fig.1 is a block diagram illustrating a system 128 connecting a sender of a composite message in accordance with the present invention to a recipient through network 124. In accordance with such system 128, there is provided computers 100 communicatively coupled by a network 124, such as the internet, to one or more computer servers 132. Although two computers 100 are shown, there is no physical limit to the number of computers 100 that may be connected to the network 124 at one time. A computer 100(1) is used by a sender to execute an application/messaging module 104. The application messaging module 104 includes an application module 105 and a composite message generation module 106. The application module 105 is preferably an electronic game application; however, the application module 105 can be any application providing images or other media that a sender wishes to send to a remote recipient.

The computer 100 further comprises a WinSock/WinInet component 108 or equivalent networking interface, a TCP/IP or other netware protocol subsystem 112, a network hardware and driver module 112, or alternatively a modem and modem driver 120, or both. The network hardware and driver module 116 provides an Ethernet connection to server 132.

The modem and driver 120 provides a telephone connection to server 132. In a preferred embodiment the computer 100 may be implemented on an Intel-based computer operating under Microsoft Windows 3.1, Windows95, or WindowsNT operating system, or a SPARC-based computer operating under UNIX, or any other equivalent devices. The computer 100 is preferably capable of generating graphical representations, typically

through the use of an internal graphics or rendering pipeline and associated hardware as is known in the art.

The computer 100(2) is similarly configured as computer 100(1) except that the application/messaging module 104 does not have to be present in computer 100(2).

5 However, computer 100(2) has a electronic mail messaging program 145 or equivalent (e.g. browser based email reader – such as Hotmail (TM)) to receive and view electronic mail messages in the conventional manner. In a preferred embodiment, the electronic mail messaging program is capable of reading e-mails with embedded Hypertext Markup language (HTML).

10 Figure 2 is a flowchart illustrating generating a composite message in accordance with the present invention. First, a composite message generation command is received 200 during execution of the application module 105 on computer 100(1), invoking the composite message generation module 106 and, in a preferred embodiment, pausing the execution of the game. This allows the sender to generate a composite message from any
15 point during the execution of the application module 105 by activating the control.

Alternatively, a key of the keyboard of the computer 100(1) is used to begin execution of the composite message generation module 106, for example, by pressing a function key or other key combination. Next, multimedia information is captured 204. Multimedia information, as discussed below, includes images, audio files, or any other media
20 provided by the application module 105 and capable of being transmitted over the network 124. An example of an image 350 is shown in Figure 3b.

Then, a message form for containing the message is generated 208. The message form is used to receive message information and message text from the sender, including

recipient data such as the recipient's email address and name. One example of a message form 400 is shown in Figure 4a. The message information may be text as shown in Fig. 4a or 4b or in an alternate embodiment may be recorded audio, video or a combination of any of these. Next, a composite message is created 212. The composite message

5 combines the message information from the message form and the multimedia information into a single display. Figure 7 illustrates one format of a composite message 700, an electronic postcard. However, any other message format in which multimedia and text information can be displayed is considered to be within the scope of the present invention. In one embodiment, the composite message itself is used to receive message

10 information directly from the user without the intermediate message form 400.

Then, the composite message is sent 216 to the recipient via network 124. The recipient, as discussed above, does not require a copy of the application module 104 to view the message, but need only have a conventional electronic mail package supporting audio/image tracks. The recipient may now view the composite message 700 containing

15 the multimedia and message information on the recipient's computer 100(2), as shown in Figure 7. This allows the sender to effectively share the sender's experience with the recipient. The recipient may also save or print out the composite message 700.

Responsive to sending the message, execution of the game is resumed. In one embodiment, the sender is displayed a notification within the game that the sent message

20 has been received, as is accomplished in conventional e-mail applications, but as the messaging is part of the application module, display of such message does not interrupt or hinder the execution of the game. Thus, by incorporating the composite message generation with an application module, the user is able to send composite messages

seamlessly from within an executing application without exiting the application or hindering the gameplay of the application if the application is an electronic game.

Figure 3a is a flowchart illustrating an embodiment of capturing multimedia information in accordance with the present invention. First, in a preferred embodiment, the composite message generation module 106 determines 302 whether extraneous user information elements or data is overlaying the image currently being displayed by the application module 105. Typically, application modules 105 display user interfaces or other graphical information 300 as part of the game (generically application) to communicate information to the player, as shown in Figure 3b. In accordance with the present invention, any user interfaces or other extraneous graphical elements 300 generated as part of the application module 105 itself or generated by third party software, for example, the operating system or other applications that may be executing in the background, are removed 304 from the image prior to capture. This provides a complete, clear image for transmission as shown in Figure 3c. As the user interfaces are typically rendered as one of the last layers by the rendering pipeline, in a preferred embodiment, the application module 105 instructs the pipeline to skip the user interface render stage for the image to be captured.

Next, the current image being displayed by the application module 105 is captured 308. This can be accomplished by several methods, for example, by retrieving data stored in a display buffer for the computer at the time the composite message generation button is selected and then storing the retrieved data in memory. In an embodiment in which user interface elements are removed, the composite message generation module 106 determines 312 whether a user interface was removed previously. This may also be

accomplished by several methods, for example, by setting a status indicator indicating that a user interface was removed upon removal of the interface, and checking the status indicator after the image has been captured to determine whether a user interface should be reinstated. If a user interface was removed, the user interfaces are redisplayed 316,
5 preferably by instructing the pipeline to resume rendering the user interface stage.

Next, the composite message generation module 106 scales 320 the captured image to a size appropriate for the composite message to be transmitted. In a preferred embodiment, the image is scaled down to a resolution 320x240 from the current screen resolution using conventional graphics techniques. In one embodiment, an interface is
10 provided allowing the user to drag a window on the screen surface, allowing the user to choose the portion of the screen to be placed in the postcard. This embodiment provides greater user control over the content of the composite message. The selected portion is then resized to fit an appropriate size for the composite message.

Then, the composite message generation module 106 retrieves 324 or captures
15 audio information to accompany the image. The audio information can be a default audio clip stored by the application, for example, indicating a unique sound of the application or identifying the application, or the audio information can be an audio file that is currently being executed at the time of image capture. This embodiment increases the ability of the sender to capture the experience of the game or application module 105.

20 Additionally, in one embodiment, a sender is given the opportunity to record an audio file to accompany the image, for example, recording a greeting by capturing the sender's voice through a microphone provided with the computer 100 or the application/messaging module 104.

Figure 4a is a flowchart illustrating an embodiment of receiving message information in accordance with the present invention. First, a message form 400 is generated 402. The message form 402 is an interface generated through conventional means that provides a “mechanism” or “means” through which the sender can enter the message information of the composite message. As discussed above, message information is typically the recipient's name, e-mail address, and a message text, as well as the sender's name and e-mail address. Figures 4b and 4c are screen shots of a preferred message form 400 within which message information can be entered by the sender, however, other forms for entry of information are considered to be within the scope of the present invention.

The message form 400 provides a entry field 416 to allow the sender to enter the sender's e-mail address. However, in a preferred embodiment, the sender's e-mail address is retrieved 404 from information stored by the application/messaging module 104, for example, when the sender registers the product with the manufacturer, or in an initial set-up screen for the application/messaging module 104. The composite message generation module 106 also displays an entry field 420 allowing the composite message generation module 106 to receive 408 the recipient's name and address. In one embodiment, the composite message generation module 106 displays a list of recipients to whom the sender has previously sent messages, and allows the sender to choose a recipient from the displayed list. The composite message generation module 106 also displays an entry field 424 allowing the composite message generation module 106 to receive message text. The message text is simply the personal text greeting the sender wishes to accompany the multimedia information.

Figure 5 is a flowchart illustrating an embodiment of creating a composite message in accordance with the present invention and is described with respect to Figure 4c and 7. First, the composite message generation module 106 positions 500 the captured image 500 within the message form. As shown in Figure 7, in an electronic postcard embodiment of the present invention, the composite message generation module 106 displays the image 300 in an image half 708 of the message 700, as in a traditional postcard. Next, the composite message generation module 106 displays 504 message text in the composite message 700, and as shown in Figure 4c, in the electronic postcard embodiment, the message text is displayed in the second, text, half 704 of the postcard. Then, the composite message generation module 106 displays 508 the sender's address in a sender information area 712 and displays 512 the recipient's address in a recipient data area 716. If an audio file is to be attached, the composite message generation module 106 attaches 516 the audio file to the message form and displays an audio icon on the message form indicating the presence of the audio file. Then, the composite message generation module 106 adds 520 additional information 720 to the message form. For example, in the embodiment shown in Figure 4c, a corporate logo is provided for display on the message form providing a means for advertising to the manufacturer of the application module 105. Additionally, in this embodiment, a postmark graphic and a stamp image are provided to complete the "postcard" image. Any other information can also be added, for example audio files or personal images selected by the sender, or other graphics to create a different form within which to present the sender's message and the selected multimedia information.

Figure 6 is a flowchart illustrating an embodiment of sending an composite message in accordance with the present invention. First, after the sender completes entry of data into the message form, the composite message generation module 106 displays 600 the composite message to the sender. In this embodiment, the option of sending the message is displayed 604, or canceling the message. If the sender does not want to send the message, the composite message generation module 106 returns 608 control to the application module 105, and the execution resumes from the point at which the sender initiated the composite message generation module 106 originally. If the sender does want to send the message, the image is converted 608 to a compressed format, for example, in JPEG, to prepare the image for transmission. Any other means of compression could also be used to compress the image suitably for transmission.

Next, the message information is restructured 612 to comply with an electronic mail protocol. In one embodiment, the basis for the email is an HTML stub file which contains an HTML tag for the image data. The ASCII e-mail message is created by wrapping the HTML in MIME (multipurpose internet mail extension) format. Any other method for transmitting text and non-text files via Internet e-mail may also be used in accordance with the present invention. Using the MIME method, the composite message is encoded using base 64 coding on the transmission end, and is decoded using the inverse process at the receiving end. A MIME header is added to the composite message that indicates the type of data within the message and the encoding method used. In this embodiment, a MIME message with multipart/related content type is used, having subparts of text/html and image/jpeg to accommodate the text and image portions of the composite message. The stub HTML code becomes the text/html part of the MIME

encoded message, and, as discussed above, the captured image is encoded using base64 encoding, and becomes the image/jpeg part of the MIME encoded message. Other content allowable in HTML could also be included as is known to those of ordinary skill in the art.

5 The composite message generation module 106 then displays 616 a message asking the sender whether the message should be sent now or later. If the sender chooses to defer the message, the completed e-mail is stored 618 until the next time the sender is connected online. The e-mail may be stored on the sender's computer 100(1), in memory, on a local or external hard drive, or, in a preferred embodiment, stored in an outbox of the
10 sender and queued for delivery the next time the sender activates the messaging application. Any other suitable means for storing information could also be used.

 If an immediate send is requested, then the composite message generation module 106 determines 624 whether the sender has an existing online connection. This is accomplished by querying the operating system of the computer 100(1), or by other
15 conventional means. If the sender is not connected, the composite message generation module 106 provides the sender the option to connect 626 to a server 132. In accordance with the present invention, the connection is made without exiting the application/messaging module 104. In an alternate embodiment, if there is no connection to the server 132, the message is automatically stored for later delivery. For example, the
20 message could be stored in the outbox, and when the sender is connected to the server 132 next, a reminder message is displayed to remind the sender that an unsent message is in the sender's outbox. If the connection is made or if the connection was already existing, the message and any stored messages are sent 628. In one embodiment, the

composite message generation module 106 disconnects the sender after sending the message. Then, the composite message generation module 106 restores the execution of the application module 105 at the point at which the sender initiated the message sending feature in accordance with the present invention.

5 The composite message is sent through a TCP/IP connection to a server 132, where it is relayed to the recipient in the conventional manner. Any mail server that implements SMTP or other compatible format can receive the composite message. If the message is transmitted over a local-area or other type of network, other connections may be used to transmit the message.

10 Figure 7 is an illustration of a composite message received through a conventional e-mail program. The recipient is not required to have the application/messaging module 104 stored on their computer 100(2); all the recipient should have is an email viewer capable of reading emails with embedded HTML. In an alternate embodiment the composite message is sent as an attachment to an e-mail, for example, as an attached .gif
15 file.

In one embodiment, as shown in Figure 8, messages transmitted by users of the application/messaging module 105 are transmitted 800 to a specific server maintained by a third party interested in providing marketing or advertising services. In this embodiment, the third party logs 804 in the electronic mail address of the recipient of the
20 message. Once stored, the third party compares 808 the recipient's identifying information with a database of registered owners of the application/messaging module 104. If the third party determines 812 that the recipient is not a registered owner, the third party sends 816 marketing information to the recipient's electronic mail address. This

allows the third party to target customers who are likely purchasers of the application/messaging module because the recipient is acquainted with the product through the sender's composite message, and the recipient may have similar interests as the sender. Therefore, the composite messaging system also provides a powerful targeted advertising feature for the benefit of the manufacturer of the application/messaging module 104.

In one embodiment, the manufacturer of the application/messaging module 104 maintains the server 132; however, in an alternate embodiment, the server 132 is maintained by a third party who provides marketing and advertising services to the manufacturer of the application module 105. Alternatively, the manufacturer maintains the server 132, but forwards composite messages to the third party to have the third party evaluate and provide advertising if appropriate. In yet another embodiment, the composite messages are generated by the manufacturer of the application/messaging module 104 or a third party working with the manufacturer, and are sent as advertisements to targeted customers.

Thus, in accordance with the present invention, users of an application module 105 are allowed to interact with their fellow users and share the in-game or application experience. The composite messages are as unique as each user's gaming experience. This feature allows a community to be built centered around a specific application module 105 and allows the manufacturer to establish and maintain brand differentiation and brand loyalty to an application module 105 by providing the interactive snapshots of the application module 105 to other users and potential users of the application module 105.

CLAIMS

1 1. A method of sending an electronic message from within an application to an
2 intended recipient, comprising:

3 receiving a user input selecting an image generated by the application;

4 generating a message form from within the application for receiving

5 message information;

6 combining the selected image and the message information into a

7 composite message; and

8 sending the composite message to the intended recipient.

1 2. The method of claim 1 wherein message information further comprises address
2 information for the recipient.

1 3. The method of claim 1 wherein message information further comprises message
2 text to be transmitted to the recipient.

1 4. The method of claim 1 further comprising:

2 receiving an address specifying a recipient of the message; and

3 attaching the address to the composite message; and wherein sending

4 comprises sending the composite message to the specified address.

1 5. The method of claim 1 further comprising:

2 receiving a generate message command; and

responsive to receiving the generate message command, pausing execution
of the application.

6. The method of claim 5 further comprising:

responsive to a message containing the image being transmitted, resuming
execution of the application.

7. The method of claim 1 further comprising:

sending a message containing recipient and sender data to a predetermined
recipient to allow the predetermined recipient to identify potential
users of the application.

8. The method of claim 7 further comprising:

receiving the message;
identifying an intended recipient of the message;
determining whether the intended recipient is an owner of the game; and
responsive to the intended recipient not being an owner of the application,
sending advertising material regarding the game to the intended
recipient.

9. A method of capturing a gaming experience of a currently executing application
for transmission as a message to a remote recipient:

capturing a user selected multimedia information generated as part of the
gaming experience;
receiving text to accompany the multimedia information;

6 creating a composite message using the captured multimedia information
7 and the received text; and
8 sending the composite message to a recipient.

1 10. The method of claim 9 wherein capturing user selected multimedia information
2 comprises

3 capturing an image currently being displayed by the application.

1 11. The method of claim 9 wherein capturing the user selected multimedia
2 information comprises:

3 retrieving an audio file linked to the application.

1 12. The method of claim 9 wherein capturing an image further comprises:

2 removing extraneous information from the currently displayed image.

1 13. The method of claim 9 wherein capturing an image further comprises:

2 scaling the captured image to a smaller size.

1 14. The method of claim 9 wherein sending the composite message comprises:

2 compressing the multimedia information.

1 15. The method of claim 14 wherein sending further comprises:

2 converting the composite message into a format compatible with an
3 electronic messaging protocol.

1 16. The method of claim 9 further comprising:

2 pausing execution of the application responsive to receiving a selection of
3 multimedia information.

1 17. The method of claim 16 further comprising:

2 resuming execution of the application responsive to sending the composite
3 message.

1 18. The method of claim 9 further comprising:

2 displaying a notification to the sender that the sent message has been
3 received.

1 19. A computer readable medium for sending an electronic message from within an
2 application to an intended recipient, the computer readable medium storing instructions
3 for causing a processor to:

4 receive a user input selecting an image displayed by the application;
5 generate a message form from within the application for receiving
6 message information;
7 combine the selected image and the message information into a composite
8 message; and
9 send the composite message to the intended recipient.

1 20. The computer readable medium of claim 19 storing instructions that further cause
2 the processor to:

3 pause execution of the application responsive to receiving a generate
4 message command; and

5 responsive to a message containing the image being transmitted, resume
6 execution of the application.

1 21. The computer readable medium of claim 19 wherein the instructions for capturing
2 an image further cause the processor to:
3 remove extraneous information from the currently displayed image.

ABSTRACT OF THE INVENTION

A system, method and apparatus are disclosed for generating a composite message representative of an application experience to be sent to a remote recipient by receiving a user input selecting multimedia information provided by an application, generating a message form from within the application to receive message information, combining the selected multimedia information and the message information into a composite message, and sending the composite message to the intended recipient. A composite message is created by any or all of the following: capturing a current image, linking an associated audio file to the message, removing extraneous user interfaces from the image, scaling the image to a more appropriate display size, adding corporate logo or other identifying information to the message, and receiving text to be transmitted to the remote recipient. The electronic mail address of the sender is automatically retrieved and placed in the message form, the recipient's name and address are received, and the address information, message text, and multimedia information are displayed to the sender to allow the sender to decide whether or not to send the composite message. A predetermined third party can be notified of the identity of the recipient of the composite message to use the information to market the application to the recipient if the recipient is not currently an owner of the application.

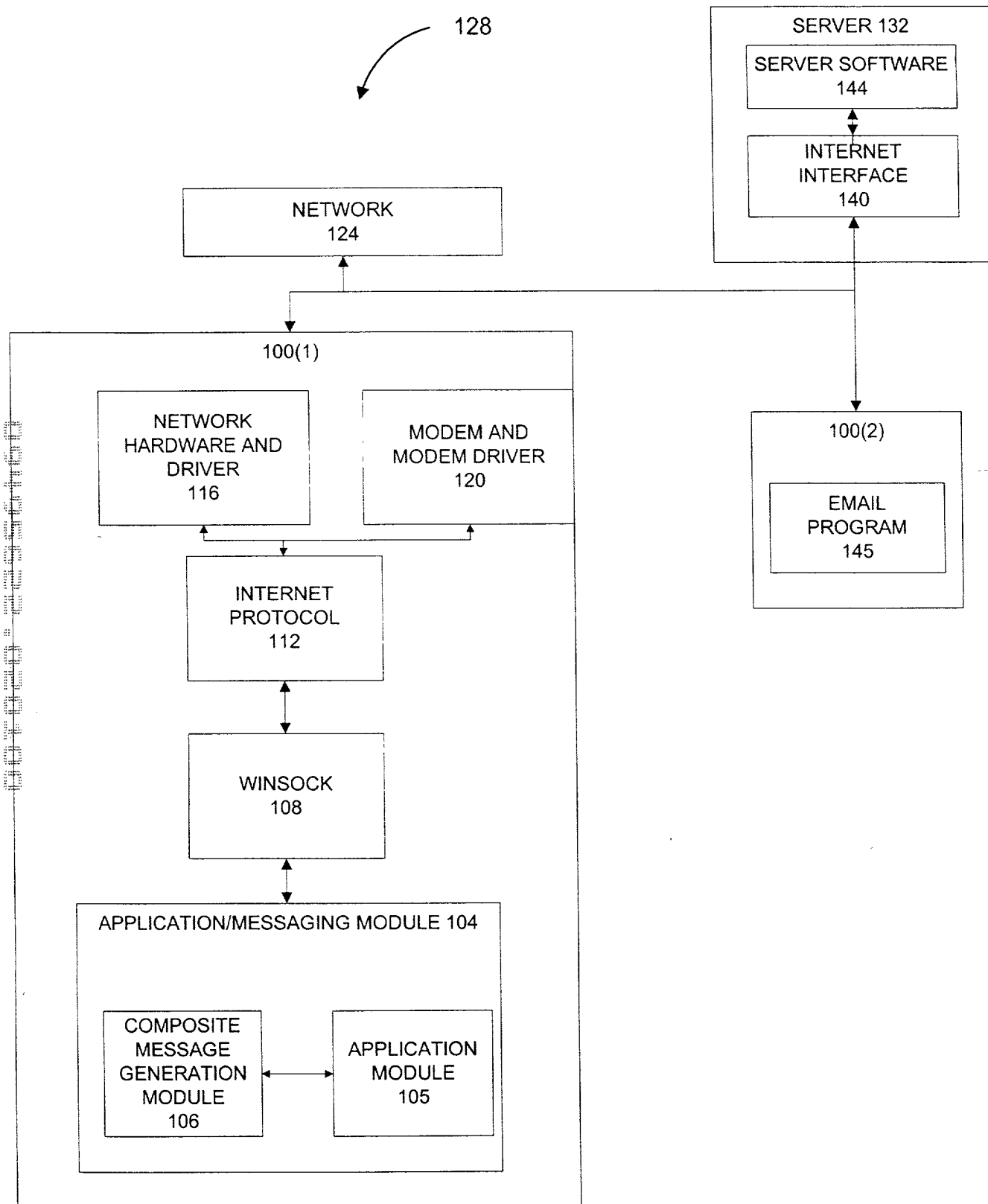


FIGURE 1

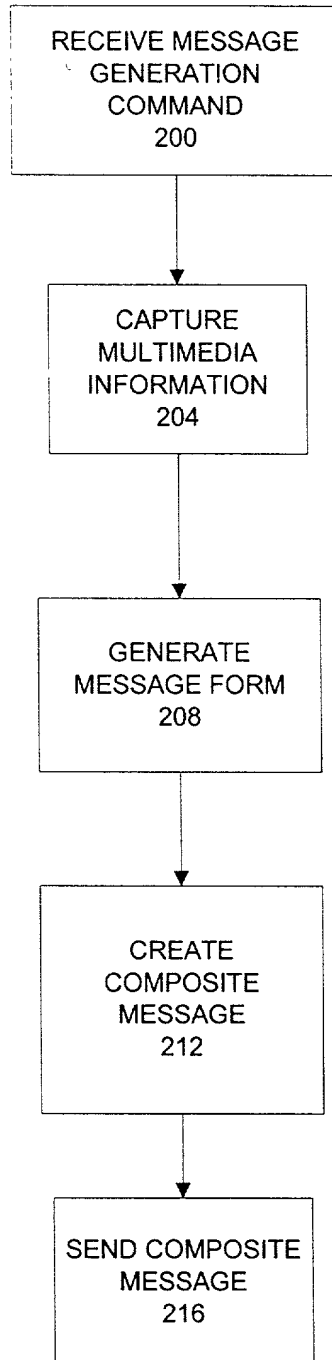


FIGURE 2

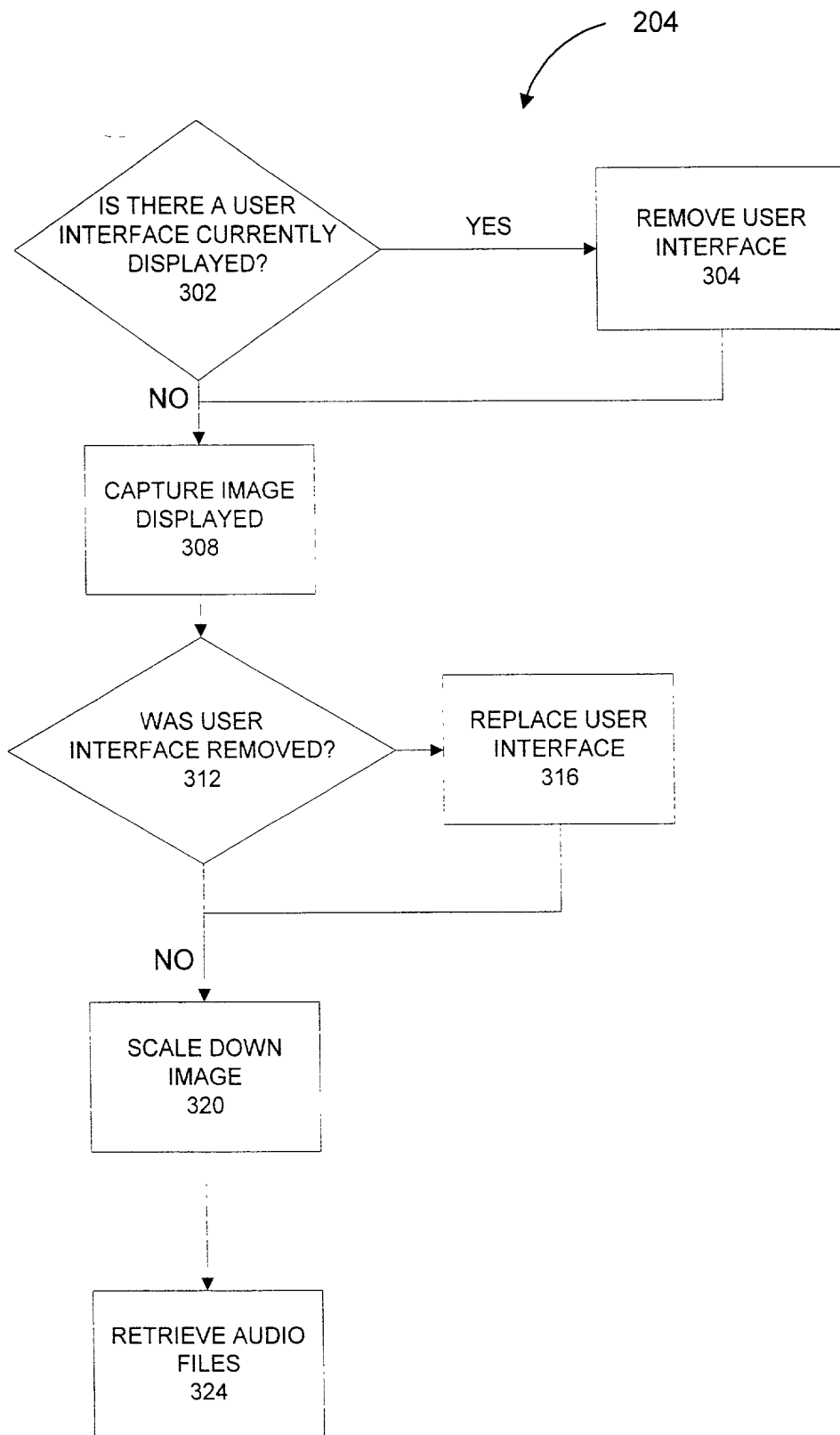


FIGURE 3a

0010223 2299460

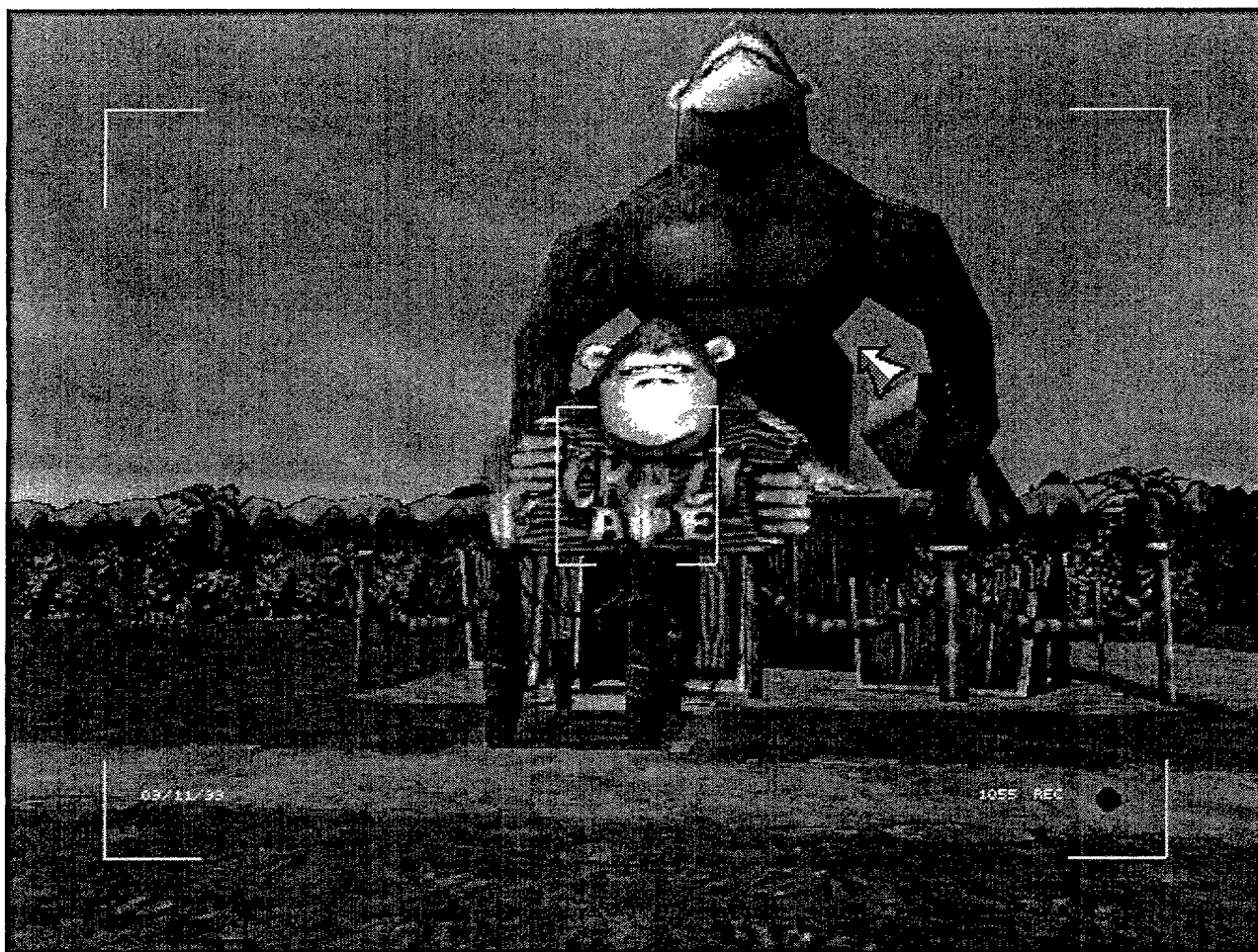


Figure 3c.

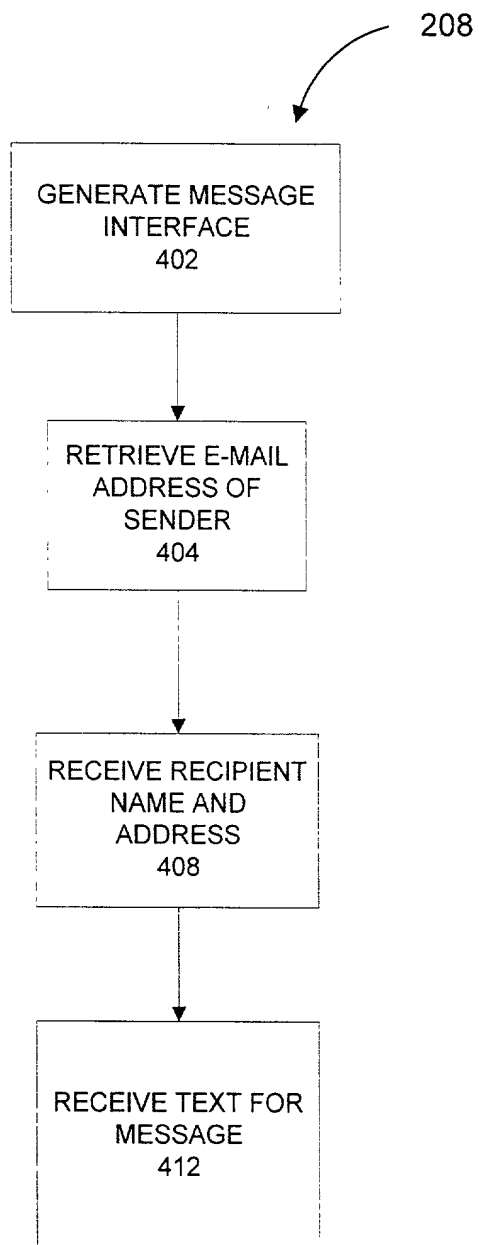


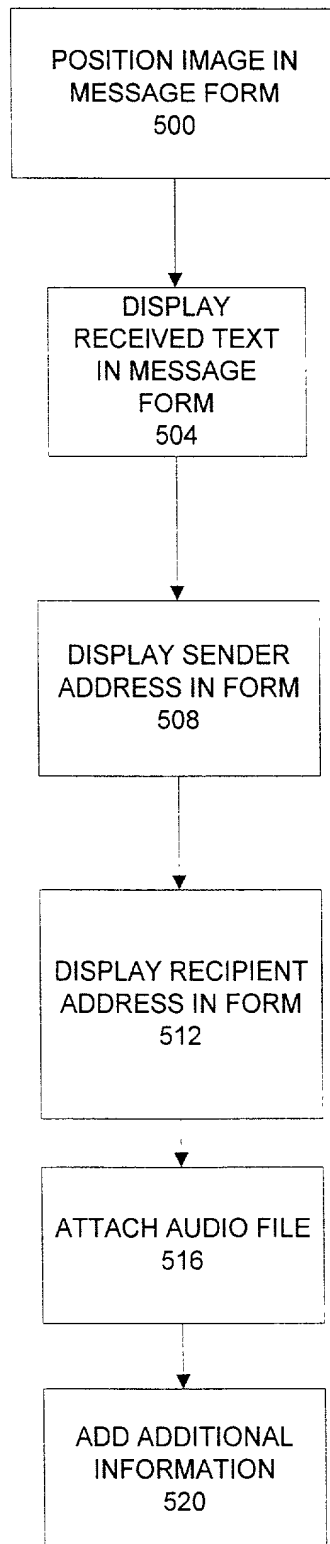
FIGURE 4a

[illegible]

424

Figure 4b

[illegible]



212

FIGURE 5

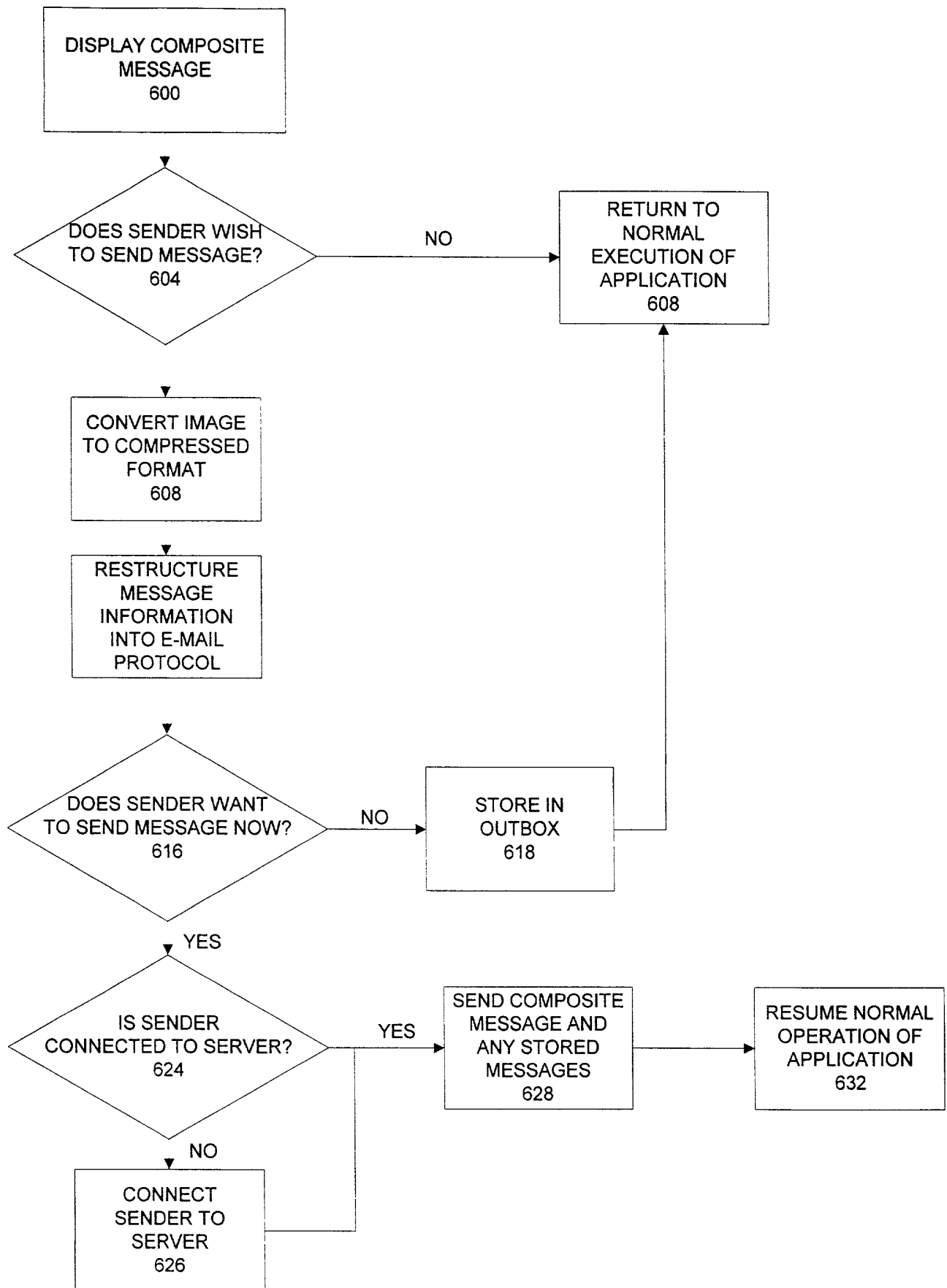


FIGURE 6

Figure

500

716-712

20

705

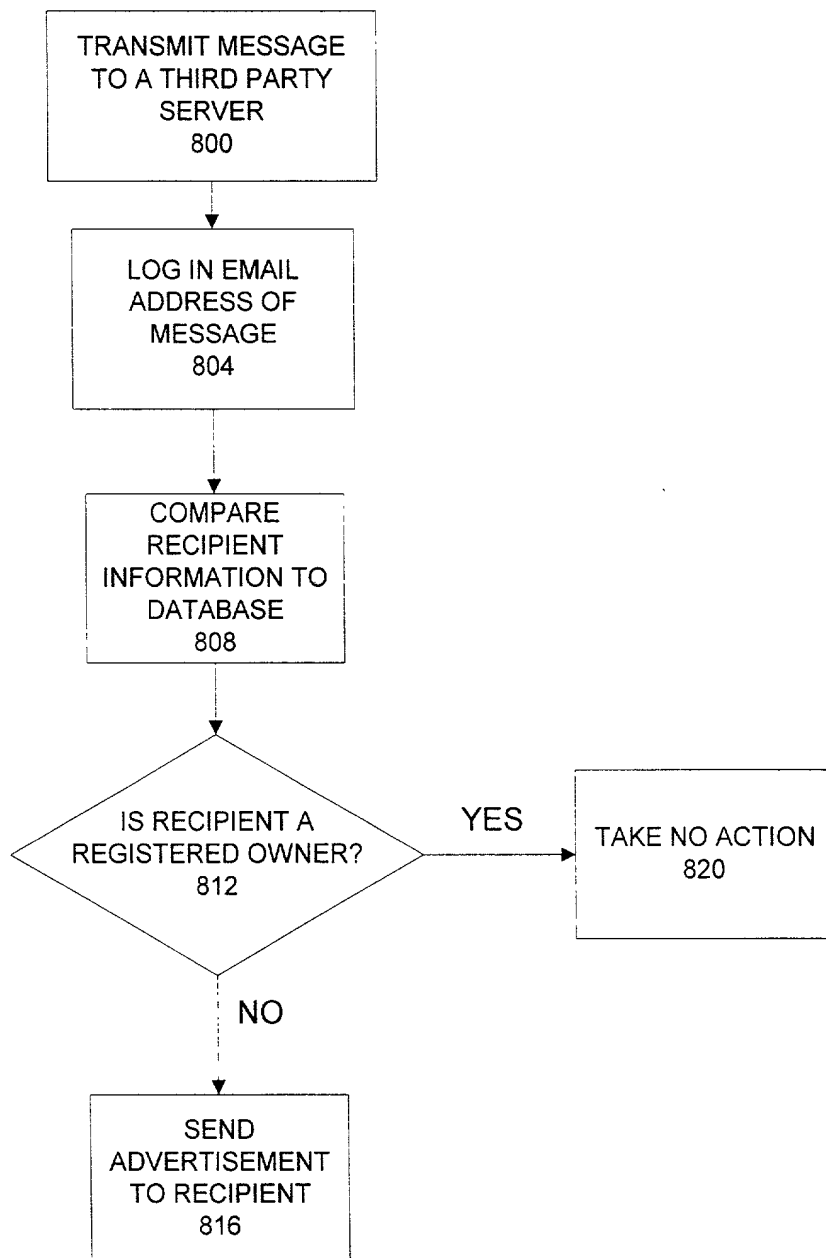


FIGURE 8

0010/PTO Rev. 6/95 U.S. Department of Commerce Patent and Trademark Office DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION <input checked="" type="checkbox"/> Declaration Submitted with Initial Filing OR <input type="checkbox"/> Declaration Submitted after Initial Filing	Attorney Docket Number	4648
	First Named Inventor	Richard Leinfellner
	<i>COMPLETE IF KNOWN</i>	
	Application Number	Not Yet Known
	Filing Date	February 1, 2000
	Group Art Unit	Not Yet Known
	Examiner Name	Not Yet Known

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

ELECTRONIC IN-APPLICATION POSTCARDS

the specification of which *(Title of the Invention)*

☒ is attached hereto
OR

☐ was filed on (MM/DD/YYYY) [] as United States Application Number or PCT International Application Number [] and was amended on (MM/DD/YYYY) [] (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37 Code of Federal Regulations. § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code § 119 (a)-(d) or § 385(b) of any foreign application(s) for patent or inventor's certificate, or § 365 (a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority	Certified Copy Attached?	
			Not Claimed	YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority sheet attached hereto:

I hereby claim the benefit under Title 35, United States Code § 119(c) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental sheet attached hereto.
60/146,433	July 29, 1999	

DECLARATION	Page 2
-------------	--------

DECLARATION	Page 2
-------------	--------

I hereby claim the benefit under Title 35, United States Code § 120 of any United States application(s), or § 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of Title 35, United States Code § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application Number	PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority sheet attached hereto.

As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Name	Registration Number	Name	Registration Number
Greg T. Sueoka	33,800		
Dana Rao	43,875		

☐ Additional attorney(s) and/or agent(s) named on a supplemental sheet attached hereto.

Please direct all correspondence to:


**Dana S. Rao
Fenwick & West LLP
Two Palo Alto Square
Palo Alto, CA 94306
U.S.A.**

Telephone	(650) 858-7666	Fax	(650) 494-1417
-----------	----------------	-----	----------------

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor:	<input type="checkbox"/> A petition has been filed for this unsigned inventor
--	---

Given Name	Richard	Middle Initial		Family Name	Leinfellner	Suffix e.g. Jr.	
------------	----------------	----------------	--	-------------	--------------------	-----------------	--

Inventor's Signature		Date	31 Jan 00
----------------------	---	------	-----------

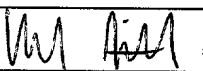
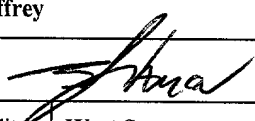
Residence: City	Brighton	State		Country	U.K.	Citizenship	Austrian
-----------------	-----------------	-------	--	---------	-------------	-------------	-----------------

Mailing Address	12 Buxton Road
-----------------	----------------

Mailing Address	
-----------------	--

City	Brighton	State		Zip	BN1 5DE	Country	U.K.
------	-----------------	-------	--	-----	----------------	---------	-------------

☒ Additional inventors are being named on supplemental sheet(s) attached hereto

DECLARATION					ADDITIONAL INVENTOR(S) Supplemental Sheet				
Name of Additional Joint Inventor, if any:					<input type="checkbox"/> A petition has been filed for this unsigned inventor				
Given Name	Karl		Middle Initial		Family Name	Fitzhugh		Suffix e.g. Jr.	
Inventor's Signature					Date	31/01/2000			
Residence: City	West Sussex		State		Country	U.K.		Citizenship	U.K.
Mailing Address	50 Horsestead House, Franklynn Road, Haywards Heath, ENGLAND								
Mailing Address									
City	West Sussex		State		Zip	RH16 4HR		Country	U.K.
Name of Additional Joint Inventor, if any:					<input type="checkbox"/> A petition has been filed for this unsigned inventor				
Given Name	Jeffrey		Middle Initial		Family Name	Gamon		Suffix e.g. Jr.	
Inventor's Signature					Date	31/01/2000			
Residence: City	West Sussex		State		Country	U.K.		Citizenship	U.K.
Mailing Address	3, Lower Sheriff Cottages, Station Approach, Highbrook, Ardingly								
Mailing Address									
City	West Sussex		State		Zip	RH17 6SP		Country	U.K.
Name of Additional Joint Inventor, if any:					<input type="checkbox"/> A petition has been filed for this unsigned inventor				
Given Name			Middle Initial		Family Name			Suffix e.g. Jr.	
Inventor's Signature					Date				
Residence: City			State		Country			Citizenship	
Mailing Address									
Mailing Address									
City			State		Zip			Country	
Name of Additional Joint Inventor, if any:					<input type="checkbox"/> A petition has been filed for this unsigned inventor				
Given Name			Middle Initial		Family Name			Suffix e.g. Jr.	
Inventor's Signature					Date				
Residence: City			State		Country			Citizenship	
Mailing Address									
Mailing Address									
City			State		Zip			Country	
Name of Additional Joint Inventor, if any:					<input type="checkbox"/> A petition has been filed for this unsigned inventor				
Given Name			Middle Initial		Family Name			Suffix e.g. Jr.	
Inventor's Signature					Date				
Residence: City			State		Country			Citizenship	
Mailing Address									
Mailing Address									
City			State		Zip			Country	
<input type="checkbox"/> Additional inventors are being named on supplemental sheet(s) attached hereto									